WHAT WE CLAIM IS:

1. An AC operating electroluminescence device, comprising:

a light-emitting layer containing phosphor particles; and

an insulating layer containing an inorganic dielectric substance,

wherein said electroluminescence device is capable of causing electroluminescence,

wherein a total thickness of the light-emitting layer and the insulating layer is less than 15 μm, and

wherein the electroluminescence device starts light emission when an average field intensity applied between electrodes in said electroluminescence device is 0.05 MV/cm or more.

2. The AC operating electroluminescence device according to claim 1, wherein a total thickness of the light-emitting layer containing the phosphor particles and the insulating layer is 3 to 10 times as large as an average particle diameter of the phosphor particles.

3. The AC operating electroluminescence device according to claim 1, wherein an average particle diameter

of the phosphor particles is 0.1 μm to 5 μm.

4. The AC operating electroluminescence device according to claim 2, wherein an average particle diameter of the phosphor particles is 0.1 μm to 5 μm.

5. The AC operating electroluminescence device according to claim 1, wherein a change in current consumption increases along with an increase in luminance occurs at a field intensity applied between the electrodes, which field intensity is equal to or higher than the average field intensity at which the light emission starts.

6. The AC operating electroluminescence device according to claim 2, wherein a change in current consumption increases along with an increase in luminance occurs at a field intensity applied between the electrodes, which field intensity is equal to or higher than the average field intensity at which the light emission starts.

7. The AC operating electroluminescence device according to claim 3, wherein a change in current consumption increases along with an increase in luminance occurs at a field intensity applied between the electrodes, which field intensity is equal to or higher than the

average field intensity at which the light emission starts.

8. The AC operating electroluminescence device according to claim 4, wherein a change in current consumption increases along with an increase in luminance occurs at a field intensity applied between the electrodes, which field intensity is equal to or higher than the average field intensity at which the light emission starts.

9. The AC operating electroluminescence device according to claim 1, wherein the insulating layer containing the inorganic dielectric substance is provided so as not to cover an entire surface of the phosphor particles but to come into contact with a part of the surface of the phosphor particles in an electric field direction.

10. The AC operating electroluminescence device according to claim 2, wherein the insulating layer containing the inorganic dielectric substance is provided so as not to cover an entire surface of the phosphor particles but to come into contact with a part of the surface of the phosphor particles in an electric field direction.

11. The AC operating electroluminescence device according to claim 3, wherein the insulating layer containing the inorganic dielectric substance is provided so as not to cover an entire surface of the phosphor particles but to come into contact with a part of the surface of the phosphor particles in an electric field direction.

12. The AC operating electroluminescence device according to claim 4, wherein the insulating layer containing the inorganic dielectric substance is provided so as not to cover an entire surface of the phosphor particles but to come into contact with a part of the surface of the phosphor particles in an electric field direction.

13. The AC operating electroluminescence device according to claim 5, wherein the insulating layer containing the inorganic dielectric substance is provided so as not to cover an entire surface of the phosphor particles but to come into contact with a part of the surface of the phosphor particles in an electric field direction.

14. The AC operating electroluminescence device

according to claim 1, wherein the light-emitting layer has a surface smoothness of 1/8 or less of the average thickness of the light-emitting layer in terms of a center line average roughness.

15. The AC operating electroluminescence device according to claim 2, wherein the light-emitting layer has a surface smoothness of 1/8 or less of the average thickness of the light-emitting layer in terms of a center line average roughness.

16. The AC operating electroluminescence device according to claim 3, wherein the light-emitting layer has a surface smoothness of 1/8 or less of the average thickness of the light-emitting layer in terms of a center line average roughness.

17. The AC operating electroluminescence device according to claim 4, wherein the light-emitting layer has a surface smoothness of 1/8 or less of the average thickness of the light-emitting layer in terms of a center line average roughness.